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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

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application:

LISTING OF CLAIMS:

1. (canceled).

2. (currently amended): An extraction system A device according to claim 411, in which said

protective sleeve is mounted to turn about the needle.

3. (currently amended): An extraction system A device according to claim 111, in which said

protective sleeve includes at least one side opening that is positioned substantially facing said at

least one side orifice of the needle in the open position.

4. (currently amended): An extraction system A device according to claim 4, in which said

protective sleeve comprises a first portion constituting a sheath surrounding said needle, and a

second portion comprising said fastener means.

5. (canceled).

6. (currently amended): An extraction system A device according to claim 4, in which said

reception means of said needle holder comprise at least one groove that is suitable for receiving

at least one projection of said fastener means of said protective sleeve.

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7. (currently amended): An extraction system A device according to claim 111, in which said

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device includes a mixing chamber that is connected to said needle, and to at least one inlet

channel and at least one outlet channel.

8. (currently amended): An extraction system A device according to claim 7, in which said

mixing chamber is provided in the needle holder.

9. (currently amended): An extraction system A device according to claim 7, in which said grip

zone comprises a handle, said mixing chamber being provided in said handle.

10. (currently amended): An extraction system A device-according to claim 7, including an add-

on element between said grip zone and said needle holder, said mixing chamber being provided

in said add-on element.

11. (currently amended): A bone-marrow extraction system, comprising:

a bone-marrow extraction and/or injection device comprising:

a grip zone; and

a needle presenting at least one side orifice;

wherein said needle is fastened onto a needle holder, and a protective sleeve

surrounds at least part of said needle, said protective sleeve being mounted to move relative to

said needle between a closed position of said at least one side orifice and an open position of said

at least one side orifice, and said needle holder including reception means that are suitable for

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co-operating with fastener means of said protective sleeve so as to hold said protective sleeve in

the closed position or in the open position; and

said fastener means include a pair of claws disposed diametrically opposite to one

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another, each claw being pivotally mounted, and presenting a manual actuation surface and a

projection; and

a mixing chamber characterized in that it includes a device according to claim 1 that is

connected to said needle of the device, and to at least one inlet channel and at least one outlet

channel;

wherein an inlet channel is connected to a source of anticoagulant.

12-13. (canceled).

14. (currently amended): An extraction system according to claim 1211, in which an outlet

channel is connected to a bone-marrow collection vessel.

15. (previously presented): An extraction system according to claim 11, in which said system

includes suction means connected at least to said needle.

16. (previously presented): An extraction system according to claim 15, in which said suction

means comprise a vacuum pump.

17. (previously presented): An extraction system according to claim 15, in which said suction

means are controlled by a control means comprising a pedal that is actuated by the user.

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18. (currently amended): An extraction system according to claim 1211, in which said at least

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one inlet channel projects into the mixing chamber and towards said at least one outlet channel,

so as to create a Venturi effect.

19. (previously presented): An extraction system according to claim 11, in which said system

includes a timer device for setting the duration of the bone-marrow suction stages.

20. (canceled).

21. (currently amended): An injection extraction system according to claim 2011, wherein in

which said device is also configured for bone-marrow injection, and is connected to a bone-

marrow reservoir, said reservoir being connected to dispenser means.

22. (currently amended): An injection extraction system according to claim 2021, in which said

dispenser means comprise a pump comprising a syringe with an electrically-driven plunger, or a

CO₂ pump.

23. (previously presented): An extraction and/or injection system according to claim 11, in which

said system is packaged in sterile manner.

24. (canceled).

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25. (currently amended): A bone marrow extraction and/or injection device according to claim

411, wherein the fastener means prevents a radial force from being applied to the protective

sheath.

26. (canceled).